

Preliminary Amendment  
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IN THE CLAIMS:

Please amend the claims as follows:

1. (Previously Presented) A method of motion-compensated predictive image encoding, comprising the steps of:

estimating (ME) first motion vectors (MVC, MV1, MVr, MVa, MVb) for first objects (16\*16);

filtering (MVPF) every occurrence of said first motion vectors (MVC, MV1, MVr, MVa, MVb) to obtain second motion vectors (MV1, MV2, MV3, MV4) for second objects (8\*8), said second objects (8\*8) being smaller than said first objects (16\*16);

generating (3) prediction errors in dependence on said second motion vectors (MV1, MV2, MV3, MV4) only; and

combining (VLC) said first motion vectors (MVC, MV1, MVr, MVa, MVb) and said prediction errors.

2. (Previously Presented) A method as claimed in claim 1, wherein said first objects (16\*16) are macro-blocks, said second objects (8\*8) are blocks, and said filtering step (MVPF) comprises the steps of:

providing x and y motion vector components of a given macro-block (MVC) and of macro-blocks (MV1, MVr, MVa, MVb)

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adjacent to said given macro-block (MVC); and

supplying for each block (MV1) of a number of blocks (MV1-MV4) corresponding to said given macro-block (MVC), x and y motion vector components respectively selected from said x and y motion vector components of said given macro-block (MVC) and from the x and y motion vector components of two blocks (MV1, MVA) adjacent to said block (MV1).

3. (Previously Presented) A device for motion-compensated predictive image encoding, comprising:

means for estimating (ME) first motion vectors (MVC, MV1, MVR, MVA, MVB) for first objects (16\*16);

means for filtering (MVPF) every occurrence of said first motion vectors (MVC, MV1, MVR, MVA, MVB) to obtain second motion vectors (MV1, MV2, MV3, MV4) for second objects (8\*8), said second objects (8\*8) being smaller than said first objects (16\*16);

means for generating (3) prediction errors in dependence on said second motion vectors (MV1, MV2, MV3, MV4) only; and

means for combining (VLC) said first motion vectors (MVC, MV1, MVR, MVA, MVB) and said prediction errors.

4. (Previously Presented) A method of motion-compensated predictive decoding, comprising the steps of:

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generating ( $VLC^{-1}$ ) first motion vectors ( $MV_c$ ,  $MV_l$ ,  $MV_r$ ,  $MV_a$ ,  $MV_b$ ) and prediction errors from an input bit-stream, said first motion vectors ( $MV_c$ ,  $MV_l$ ,  $MV_r$ ,  $MV_a$ ,  $MV_b$ ) relating to first objects ( $16 \times 16$ ) and said prediction errors related to second objects ( $8 \times 8$ ) only;

filtering (MVPF) every occurrence of said first motion vectors ( $MV_c$ ,  $MV_l$ ,  $MV_r$ ,  $MV_a$ ,  $MV_b$ ) to obtain second motion vectors ( $MV_1$ ,  $MV_2$ ,  $MV_3$ ,  $MV_4$ ) for said second objects ( $8 \times 8$ ), said second objects ( $8 \times 8$ ) being smaller than said first objects ( $16 \times 16$ ); and

generating (15, MC) an output signal in dependence on said prediction errors and said second motion vectors ( $MV_1$ ,  $MV_2$ ,  $MV_3$ ,  $MV_4$ ).

5. (Previously Presented) A method as claimed in claim 4, wherein said first objects ( $16 \times 16$ ) are macro-blocks, said second objects ( $8 \times 8$ ) are blocks, and said filtering step (MVPF) comprises the steps of:

providing x and y motion vector components of a given macro-block ( $MV_c$ ) and of macro-blocks ( $MV_l$ ,  $MV_r$ ,  $MV_a$ ,  $MV_b$ ) adjacent to said given macro-block ( $MV_c$ ); and

supplying for each block ( $MV_1$ ) of a number of blocks ( $MV_1$ - $MV_4$ ) corresponding to said given macro-block ( $MV_c$ ), x and y motion vector components respectively selected from said x

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and y motion vector components of said given macro-block (MVC)  
and from the x and y motion vector components of two blocks  
(MV1, MVA) adjacent to said block (MV1).

6. (Previously Presented) A device for motion-compensated  
predictive decoding, comprising:

means for generating ( $VLC^{-1}$ ) first motion vectors  
(MVC, MV1, MVR, MVA, MVB) and prediction errors from an input  
bit-stream, said first motion vectors (MVC, MV1, MVR, MVA, MVB)  
relating to first objects (16\*16) and said prediction errors  
related to second objects (8\*8) only;

means for filtering (MVPF) every occurrence of said  
first motion vectors (MVC, MV1, MVR, MVA, MVB) to obtain second  
motion vectors (MV1, MV2, MV3, MV4) for said second objects  
(8\*8), said second objects (8\*8) being smaller than said first  
objects (16\*16); and

means for generating (15, MC) an output signal in  
dependence on said prediction errors and said second motion  
vectors (MV1, MV2, MV3, MV4).

7. (Previously Presented) A multi-media apparatus, comprising:

means (T) for receiving a motion-compensated  
predictively encoded image signal; and

a motion-compensated predictive decoding device as  
claimed in claim 6 for generating a decoded image signal.

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8. (Previously Presented) An image signal display apparatus, comprising:

means (T) for receiving a motion-compensated predictively encoded image signal;  
a motion-compensated predictive decoding device as claimed in claim 6 for generating a decoded image signal; and  
means (D) for displaying said decoded image signal.

9. (Currently Amended) ) A method for generating a motion-compensated predictively encoded image signal, comprising:

estimating first motion vectors (MVC, MVl, MVr, MVa, MVb) relating to first objects (16\*16); obtaining second motion vectors (MV1, MV2, MV3, MV4) for second objects (8\*8) from said first motion vectors (MVC, MVl, MVr, MVa, MVb and generating prediction errors relating to every occurrence of second objects (8\*8), said second objects (8\*8) being smaller than said first objects (16\*16), wherein said prediction errors depend on ~~motion vectors for said second objects (8\*8)~~ said second motion vectors (MV1, MV2, MV3, MV4) only.